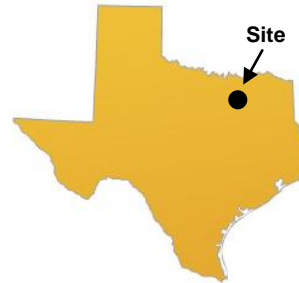


CIRCLE COURT GROUND WATER PLUME SUPERFUND SITE

Willow Park, Parker County, Texas

EPA Region 6
EPA ID #: TXN000606965
Site ID #: 606965
SSID #: A6V7
Congressional District: 12
Contact: Vincent Malott, 214-665-8313



Last Updated: October 2012

Background

The Circle Court Ground Water Plume Site is a trichloroethene (TCE) ground water plume in the Trinity aquifer, parts of which are within the City of Willow Park and the City of Hudson Oaks, in Parker County, Texas. The source of the TCE in ground water has not been determined. However, a drum labeled as TCE and containing residual concentrations of TCE has been located in close proximity to a private water supply well containing the highest TCE concentration at the Site. The TCE contamination is present south of Interstate 20 along a one-half mile section of Russell Road. The highest concentration exceeding the Safe Drinking Water Act maximum contaminant level (MCL) is present at Circle Drive and Russell Road. The plume boundary in the second figure below is estimated by the detection of TCE in water samples collected from private and public water supply wells. The ground water samples are from the shallow aquifer at an approximate depth of 100 to 250 feet deep. The site boundaries are not defined since the full extent and nature of contamination has not been investigated.

The City of Willow Park and the City of Hudson Oaks supply water to most homes within the area of the site, except for some of the homes in the area of Russell Road. The ground water contamination was first indicated by a public water supply well at the Willow Springs Oaks Pump Station located at 117 Circle Court in Willow Park, Parker County, Texas (see figure below). The Willow Park public water supply well #20 (designated as GW-05 in the second figure below) and accompanying pump station is located in a rural residential area approximately six miles east of the City of Weatherford and is part of the City of Willow Park public water system (PWS). Single-family properties border the pump station to the south, west and east. A 15-acre vacant wooded lot borders the pump station to the north. Three water system service pumps, two ground storage tanks and an elevated storage tank for water are also located at the Willow Springs Oaks Pump Station.

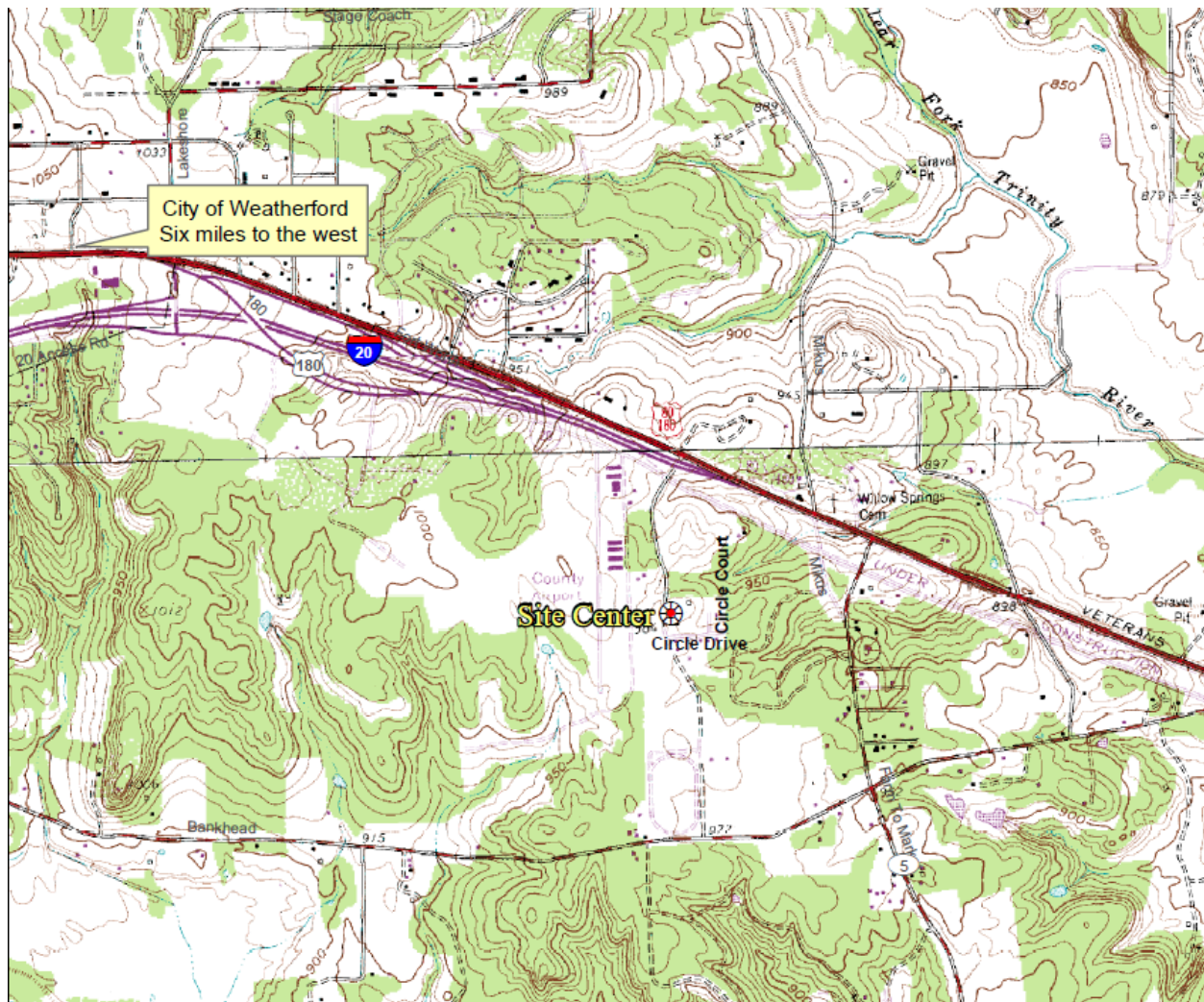
The combined March and June 2010 sampling events conducted by the Texas Commission on Environmental Quality (TCEQ) resulted in seven wells with documented levels of TCE. Three wells used for drinking water had TCE concentrations exceeding the maximum contaminant level of 5 micrograms per liter ($\mu\text{g/L}$) for drinking water. The highest level of TCE was found in a private domestic drinking water well located at 405 Russell Road, Willow Park (designated GW-41). One non-drinking water well, located at the Parker County Airport was also documented to have a TCE level exceeding the MCL. The location of the TCE plume in the Paluxy Formation approximately follows a one half mile stretch of Russell Road, with one detection of TCE further to the east.

TCE was first detected in March 2006 during routine monitoring of the City of Willow Park PWS at a concentration of 6.03 micrograms per liter ($\mu\text{g/L}$). The detection exceeded the EPA maximum contaminant level (MCL) for drinking water of 5 $\mu\text{g/L}$. The water sample that exceeded the MCL had been

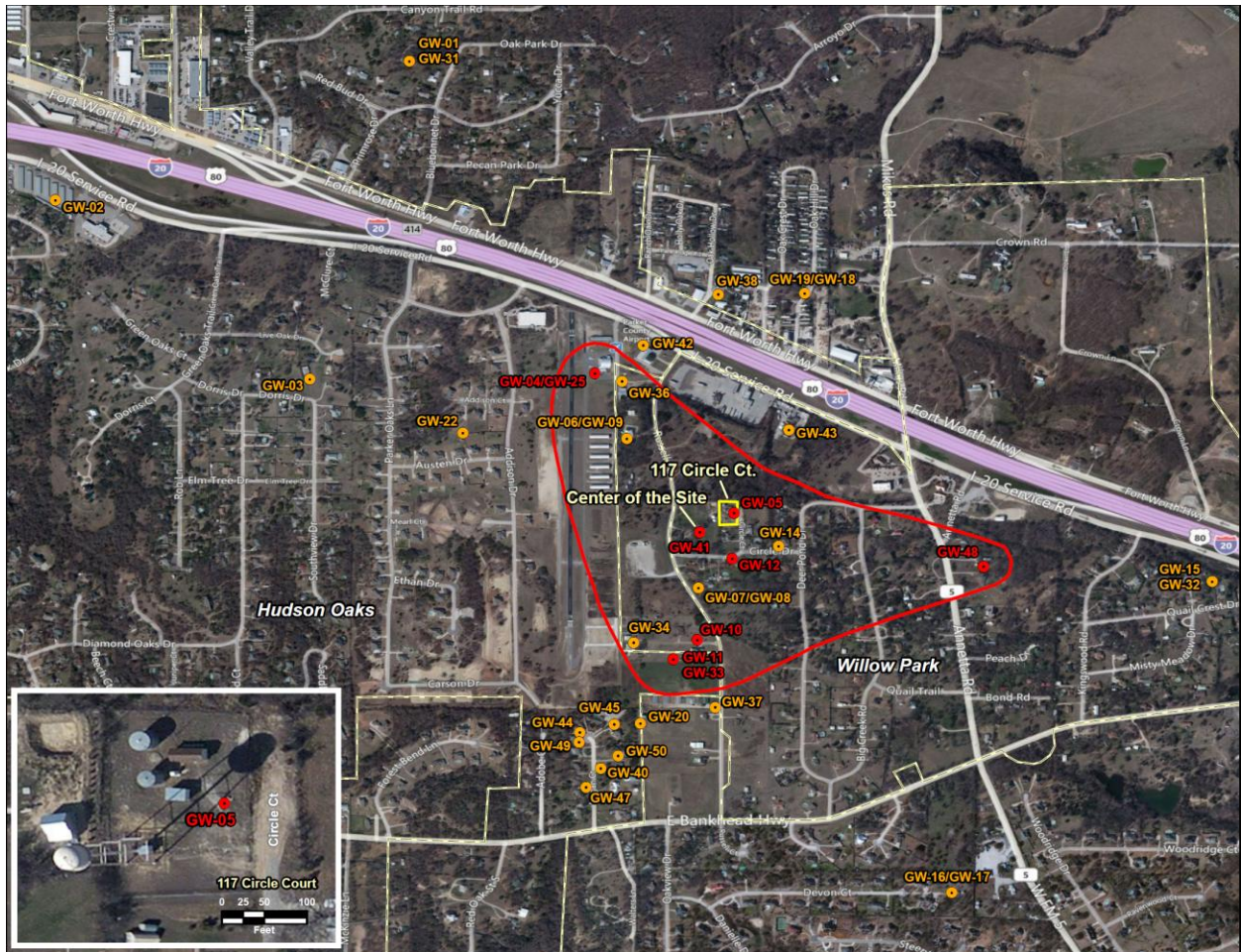
collected from the distribution system point of entry for the City of Willow Park well #20. As a result of the TCE exceedance in well #20, the well was taken out of service on April 1, 2006. On June 19, 2006, the City of Willow Park installed granular activated carbon filters on the impacted well, and the well was subsequently put back into service.

Site Map

The center of the Site is located south of Interstate 20 in the City of Willow Park. The cities of Hudson Oaks and Weatherford are located west of the Site center.



The locations of the private and public water supply wells sampled by the TCEQ are illustrated in the figure below. The corresponding well locations marked with red circles indicate the presence of TCE in the ground water samples. The red line is the estimated boundary of the TCE in ground water.



Current Status

The Remedial Investigation has begun and the initial funding for the field activities was completed by the end of September 2012. The initial field activities will focus on the collection of passive soil gas data around the site of the TCE drum located on Russell Road, near the site center. The passive soil gas data will provide information on the possible location of past TCE disposal. Additional field activities will focus on the collection of geophysical logs from nearby water supply wells to provide information on the Paluxy aquifer and possible pathways for the migration of TCE in ground water.

The response actions to date have been to ensure that the residents affected have safe water to drink. The TCEQ has installed and maintains a granular activated carbon filter on the private supply well with TCE concentrations exceeding the MCL.

Benefits

The identification and investigation of the source of groundwater contamination is needed to prevent additional private wells from being contaminated, and develop plans for cleanup of the ground water.

National Priorities Listing (NPL) History

NPL Inclusion Proposal Date: March 15, 2012
NPL Inclusion Final Date: To Be Determined

Wastes and Volumes

The primary ground water contaminant is trichloroethene (TCE). The site is being evaluated as a ground water contaminant plume with no identified source. The outer boundary of the ground water contamination has not yet been defined but the existing sample data obtained from the private water wells has indicated an area of at least 1/2 mile in length.

Health Considerations

One public supply and six private wells within a one-mile radius of the site had confirmed detections of TCE in the ground water samples. Three wells used for drinking water had TCE concentrations exceeding the maximum contaminant level of 5 micrograms per liter (µg/L). The highest concentration of TCE is more than eight times the MCL. All the wells draw water from the Trinity Aquifer.

Record of Decision (ROD)

A Record of Decision will be issued following completion of the Remedial Investigation/Feasibility Study and an opportunity for the community and interested parties to review the data and comment on the preferred remedy identified by the EPA.

Community Involvement

A site fact sheet was mailed to residents in the area of the ground water plume in July 2012, and a community availability session was held on August 9, 2012, at the Willow Park Community Center. EPA had previously published a proposed rule in the Federal Register on March 15, 2012, to add ten sites to the NPL, including the Circle Court Ground Water Site. Comments regarding the proposed listing of the Circle Court Site had to be submitted (postmarked) on or before May 14, 2012. Further details on how comments were to be submitted can be found in the Federal Register notice, a copy of which is available at the following link:

<http://www.epa.gov/superfund/sites/npl/p120315.htm>

Site Contacts

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TCEQ Project Manager
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1-800-533-3508

Local Information Repository:

East Parker County Library,

201 FM 1187 North, Aledo, TX 76008

817-441-6545

Hours: Tue - Fri: 10 am – 6 pm,

Sat: 10 am – 1 pm, Sunday - Mon: closed

www.epclibrary.com

Weatherford Public Library

1014 Charles St., Weatherford, TX 76086

817-598-4150

Hours: Mon - Thur: 10 am – 8 pm,

Fri - Sat: 10 am – 6 pm, Sunday: 2 pm – 6 pm

www.wpltx.com